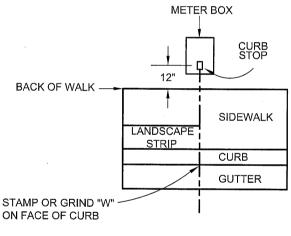


MAIN TYPE	SERVICE CONNECTION TYPE
D.I.P.	STAINLESS STEEL FULL CIRCLE CLAMP WITH THREADED CORPORATION STOP TO BE USED ON ALL 1" AND 2" SERVICES.
C.I.P.	7-1/2" WIDE BAND FOR 1" TAPS 12-1/2" WIDE BAND FOR 2" TAPS
A.C.P.	DOUBLE STRAP SERVICE CLAMP WITH THREADED CORPORATION STOP.
P.V.C.	SERVICE SADDLES FORD S-90 OR AS APPROVED BY ENGINEER.

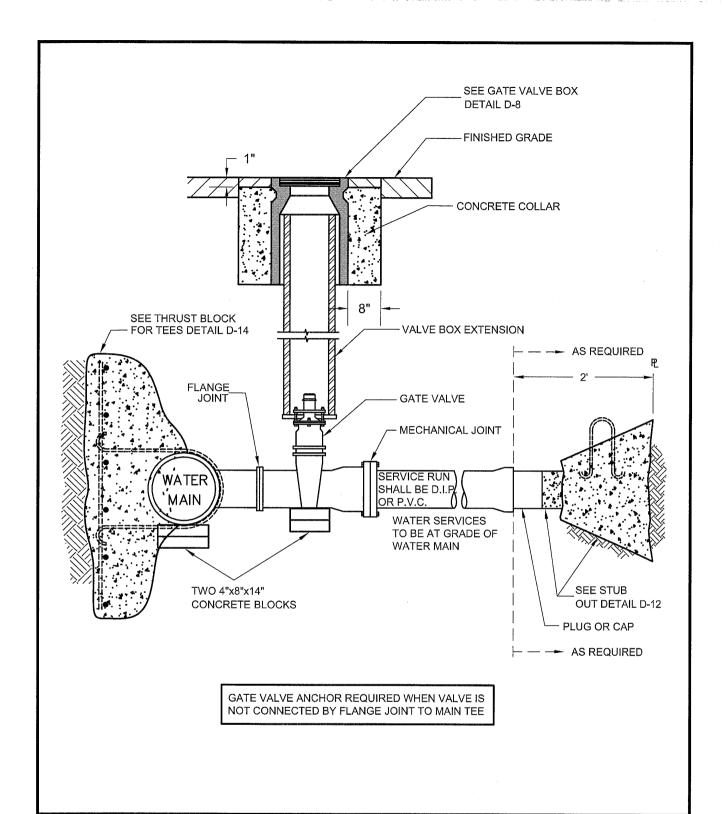


LOCATE ALL METERS BEHIND WALK

NOTE:

- 1. INSTALL 1/4" PLYWOOD TO BLOCK PIPE PENETRATIONS INTO METER BOX.
- 2. CLEAN METER BOX OF DEBRIS. NO EARTH-TO-METER CONTACT.
- 3. SEE STANDARD DETAIL D-31 FOR CATHODIC PROTECTION REQUIREMENTS, WHEN REQUIRED BY ENGINEER BASED ON LOCATION.

Revision Date Approved Drawn: QT Date: 10-31-14	CITY OF MOUNTAIN VIEW PUBLIC WORKS DEPARTMENT STANDARD DETAIL
APPROVED BY No. 57093 APPROVED BY No. 57093 Marketine CLS Troub 10/31/14 92-33/15/F07 57093 R.C.E. NO.	1" AND 2" WATER SERVICES WITH 3/4", 1", 1-1/2", AND 2" WATER METERS FILE NO. D-1



Revision

Date: 10-31-14

Checked: LAG: Scale: NTS

APPROVEDBY: No. 57093

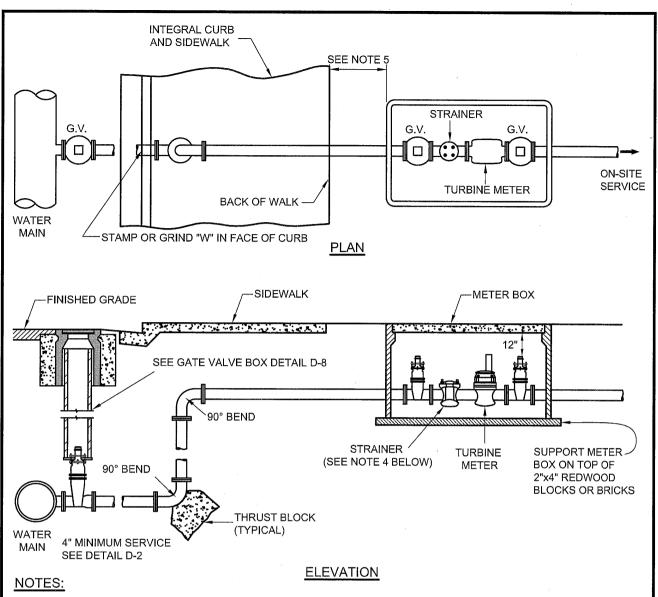
APPROVEDBY: No. 57093

DATE: 57093

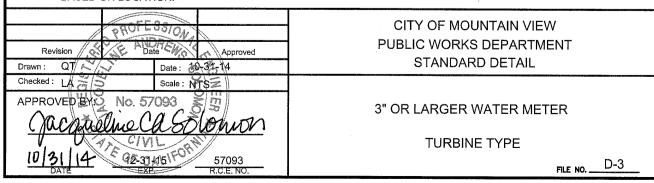
R.C.E. NO.

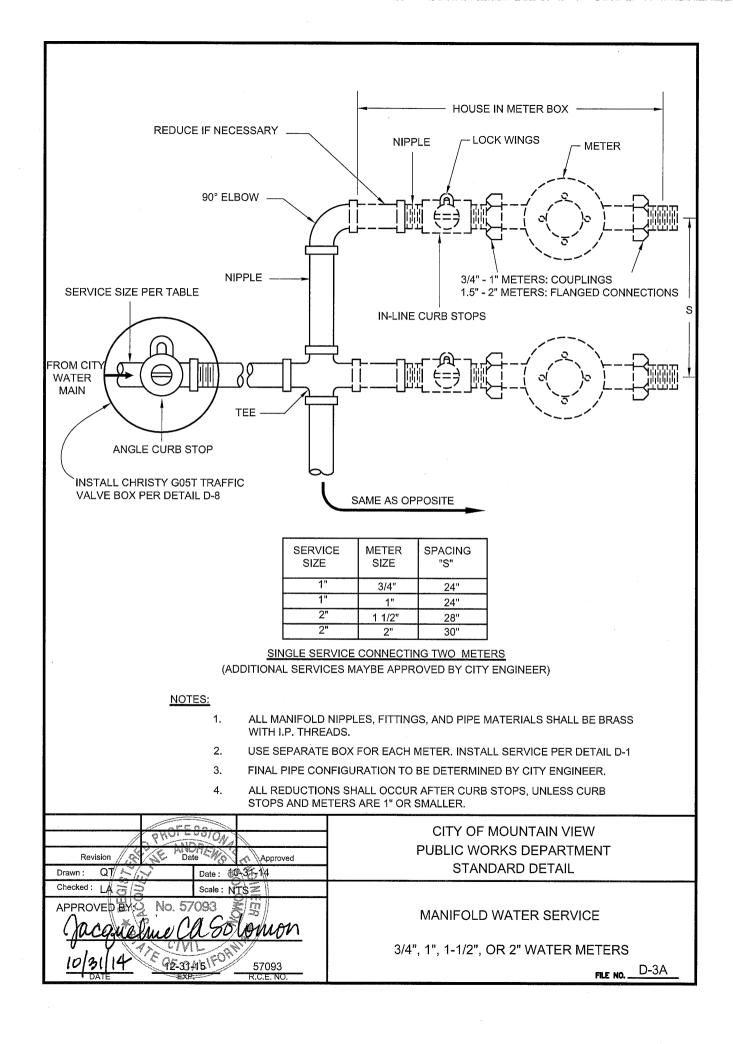
CITY OF MOUNTAIN VIEW
PUBLIC WORKS DEPARTMENT
STANDARD DETAIL

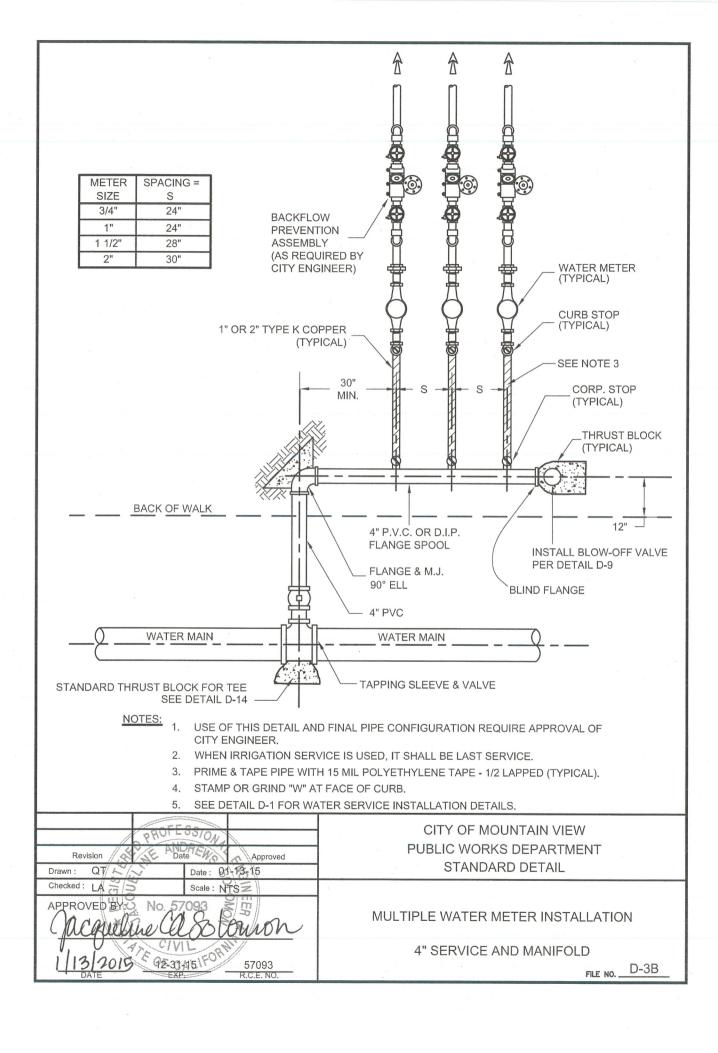
WATER AND FIRE SERVICE 4" OR LARGER
WITH 3" OR LARGER METERS

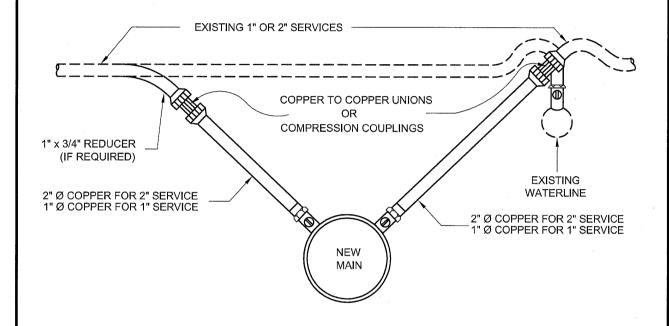


- 1. THE METER AND METER BOX MAY BE ROTATED 90° TO COMPENSATE FOR SPACE REQUIREMENTS.
- 2. ALL JOINTS SHALL BE FLANGED TYPE, OR MECHANICAL TYPE JOINTS WITH RETAINER GLANDS. COAT BOLTS, NUTS AND RETAINER GLANDS WITH MASTIC COATING SOLUTION.
- 3. WRAP ALL METER PIPE, FITTINGS AND VALVES WITH 8 MIL POLYETHYLENE, EXCEPT FOR PIPING IN METER BOX.
- 4. INSTALL STRAINER UPSTREAM OF METER.
- 5. LOCATION OF METER + BACKFLOW TO BE DETERMINED BY CITY ENGINEER.
- 6. INSTALL 1/4 " PLYWOOD TO BLOCK PIPE PENETRATIONS INTO METER BOX
- 7. CLEAN METER BOX OF DEBRIS. NO EARTH TO METER CONTACT.
- 8. SEE STANDARD DETAIL D-31A FOR CATHODIC PROTECTION REQUIREMENTS, WHEN REQUIRED BY ENGINEER BASED ON LOCATION.







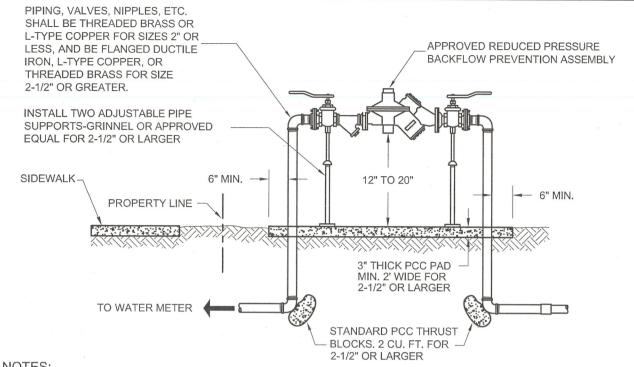


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Revision	Date Approved
Drawn: QT	Date: 10-31-14
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APPROVED BY	No. 57093 (중 등)
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1 1 1	CVIL AND
10/31/14	12-31-15\ 57093
DATE	R.C.E. NO.

CITY OF MOUNTAIN VIEW
PUBLIC WORKS DEPARTMENT
STANDARD DETAIL

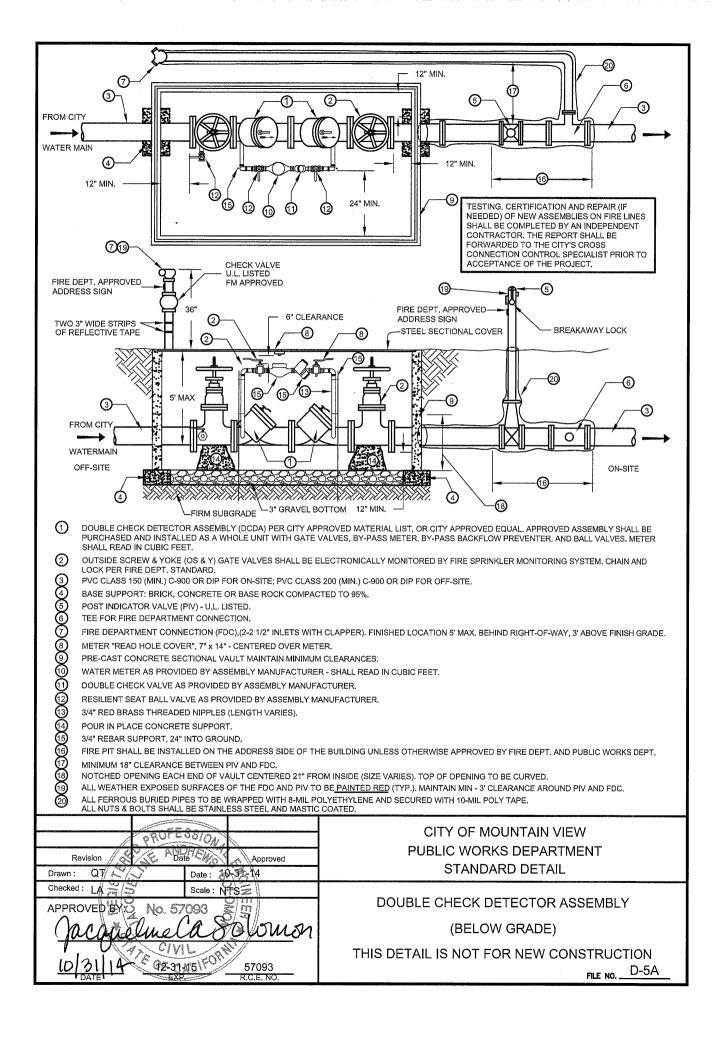
TRANSFER SERVICE

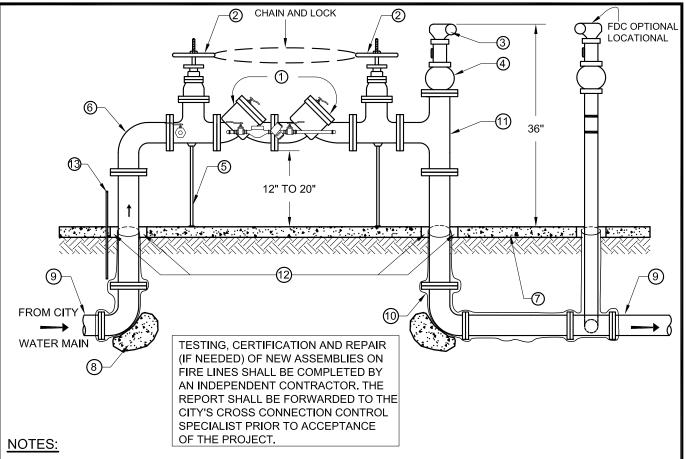
(USED WHEN REPLACING MAIN AND NOT SERVICES)



- 1. REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLIES SHALL BE REQUIRED FOR ANY USE WHERE TOXIC MATERIALS ARE USED OR WHERE POSITIVE PROTECTION FOR THE PUBLIC WATER SUPPLY IS REQUIRED. TYPICAL APPLICATIONS INCLUDE: HOSPITALS, MEDICAL AND DENTAL LABORATORIES, MORTUARIES, INDUSTRIAL PLANTS, DRY CLEANERS, LANDSCAPE IRRIGATION, OR AS DETERMINED BY THE CITY.
- 2. APPROVED REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLIES SHALL BE LISTED IN THE LATEST EDITION OF THE CITY STANDARD PROVISIONS.
- 3. BACKFLOW PREVENTION ASSEMBLIES SHALL BE INSTALLED ADJACENT TO AND ON PROPERTY SIDE OF SIDEWALK WHERE APPLICABLE. THE ASSEMBLY SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO THE WATER METER.
- 4. ALL ASSEMBLIES 3/4" TO 2" WILL HAVE FULL PORT DOMESTIC BALL VALVES, WITH THREADED ENDS. 3" AND LARGER ASSEMBLIES WILL HAVE RESILIENT SEATED GATE VALVES, WITH FLANGED ENDS.
- 5. PRESSURE DIFFERENTIAL VALVE IS TO BE AT LEAST 12" ABOVE GRADE TO A MAXIMUM OF 20",
- 6. NO CONNECTION BETWEEN THE BACKFLOW PREVENTION ASSEMBLY AND WATER METER WILL BE PERMITTED. BACKFLOW PREVENTION ASSEMBLIES SMALLER THAN 2.5" SHALL BE PLACED DIRECTLY BEHIND THE WATER METERS, UNLESS THERE IS A CONFLICT WITH OTHER UTILITIES, DRIVEWAYS OR SIDEWALKS, BACKFLOW PREVENTION ASSEMBLIES 2.5" OR LARGER SHALL BE PLACED AS CLOSE TO THE METER AS POSSIBLE, UNLESS AN EXEMPTION IS GRANTED BY THE PUBLIC SERVICES DEPARTMENT. IF AN EXEMPTION IS GRANTED, THE BACK FLOW PREVENTION ASSEMBLY SHALL BE SCREENED WITH LANDSCAPING AND THE TRENCHES SHALL BE LEFT OPEN SO THAT THE CITY CAN VERIFY THAT THERE ARE NO CONNECTIONS BETWEEN THE BACKFLOW PREVENTION ASSEMBLY AND THE METER. THE CITY RESERVES THE RIGHT TO TEST THE SYSTEM TO ENSURE THAT THESE REQUIREMENTS ARE MET.
- 7. WHERE A BACKFLOW PREVENTION ASSEMBLY IS INSTALLED MORE THAN 8' BEHIND THE WATER OR IRRIGATION METER, THE PIPING BETWEEN THE BACKFLOW PREVENTION ASSEMBLY AND THE METER SHALL BE ENCASED IN CONTROLLED DENSITY FILL (CDF).

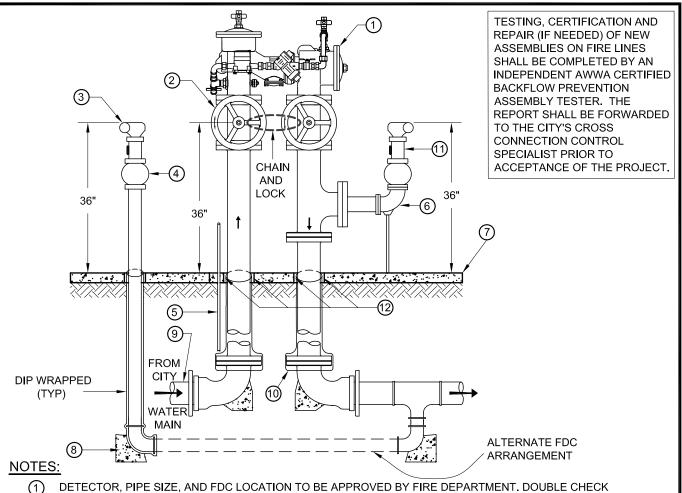
Revision Date: Q1-13-15	CITY OF MOUNTAIN VIEW PUBLIC WORKS DEPARTMENT STANDARD DETAIL
Checked: LA Scale: NTS	
APPROVED BY No. 57093	REDUCED PRESSURE BACKFLOW
(acquetine all sotomon	PREVENTION ASSEMBLY
1 13 2019 92-31-45 7093 R.C.E. NO.	FILE NO





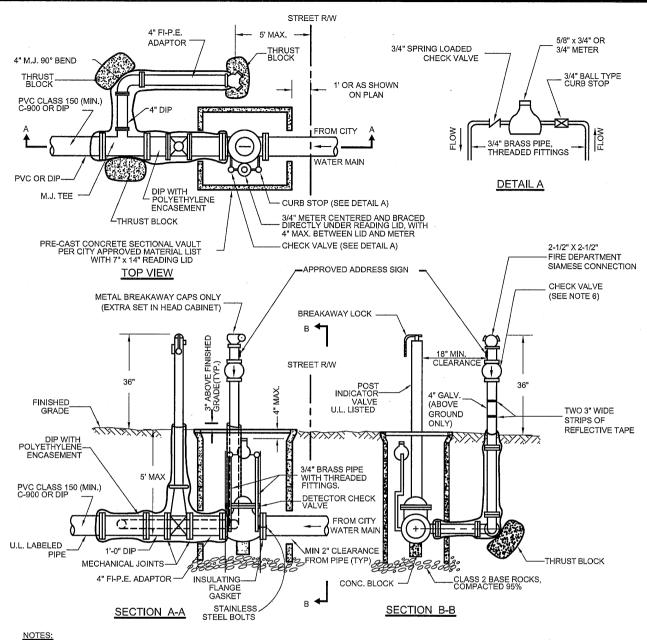
- ① DETECTOR, PIPE SIZE, AND FDC LOCATION TO BE APPROVED BY FIRE DEPARTMENT. DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) SHALL BE PURCHASED AND INSTALLED AS A WHOLE UNIT WITH GATE VALVES, BY-PASS METER, BY-PASS BACKFLOW PREVENTOR, AND BALL VALVES. METER SHALL READ IN CUBIC FEET.
- ② OUTSIDE SCREW & YOKE (OS & Y) GATE VALVES SHALL BE ELECTRONICALLY MONITORED BY FIRE SPRINKLER MONITORING SYSTEM. CHAIN AND LOCK PER FIRE DEPT. STANDARD.
- (3) FIRE DEPARTMENT CONNECTION (FDC) (2-2 1/2" INLETS WITH CLAPPERS) SHALL FACE STREET FRONTAGE. FINISHED LOCATION 5' MAX BEHIND R/W. 3' MIN CLEARANCE AROUND BACKFLOW AND FDC. ALL WEATHER EXPOSED SURFACES OF THE FDC TO BE PAINTED RED.
- (4) WAFER CHECK VALVE U.L. LISTED, FM APPROVED.
- (5) INSTALL TWO ADJUSTABLE PIPE SUPPORTS (GRINNELL OR APPROVED EQUAL) UNDER GATE VALVE.
- (6) EXPOSED PIPING AND FITTINGS SHALL BE FLANGED DUCTILE IRON.
- 4" THICK P.C.C. PAD EXTEND PAD MINIMUM 2' BEYOND ASSEMBLY (ALL AROUND).
- (8) STANDARD P.C.C. THRUST BLOCKS 2 CU FT FOR 3" & 4" DIA. PIPE.
- (9) PVC CLASS 150 (MIN.) C 900 OR DIP FOR ON-SITE; PVC CLASS 200 (MIN.) C 900 OR DIP FOR OFF-SITE.
- (1) ALL FERROUS BURIED PIPES TO BE WRAPPED WITH 8-MIL POLYETHYLENE AND SECURE WITH 10-MIL POLY TAPE. ALL NUTS AND BOLTS SHALL BE STAINLESS STEEL AND MASTIC COATED.
- MOUNT APPROVED STREET SIGN ON FDC ASSEMBLY FACING STREET FRONTAGE WITH STAINLESS STEEL STRAPS AND SCREWS.
- (12) 2" ANNULAR SPACE BETWEEN PIPE AND CONCRETE. FILL IN 2" SPACE WITH SAND.
- (13) 1" PVC CONDUIT FOR TAMPER SWITCH ELEC. TO BLDG. ASR.

Revision Date Date QT Date: 07-01-14	CITY OF MOUNTAIN VIEW PUBLIC WORKS DEPARTMENT STANDARD DETAIL
Checked: LA Scale: NTSZ APPROVED BY: No. 57093	FIRE DOUBLE CHECK
Jacqueline Ca Solomon	DETECTOR ASSEMBLY
07-03-14	(ABOVE GRADE) FILE NO. D-5B



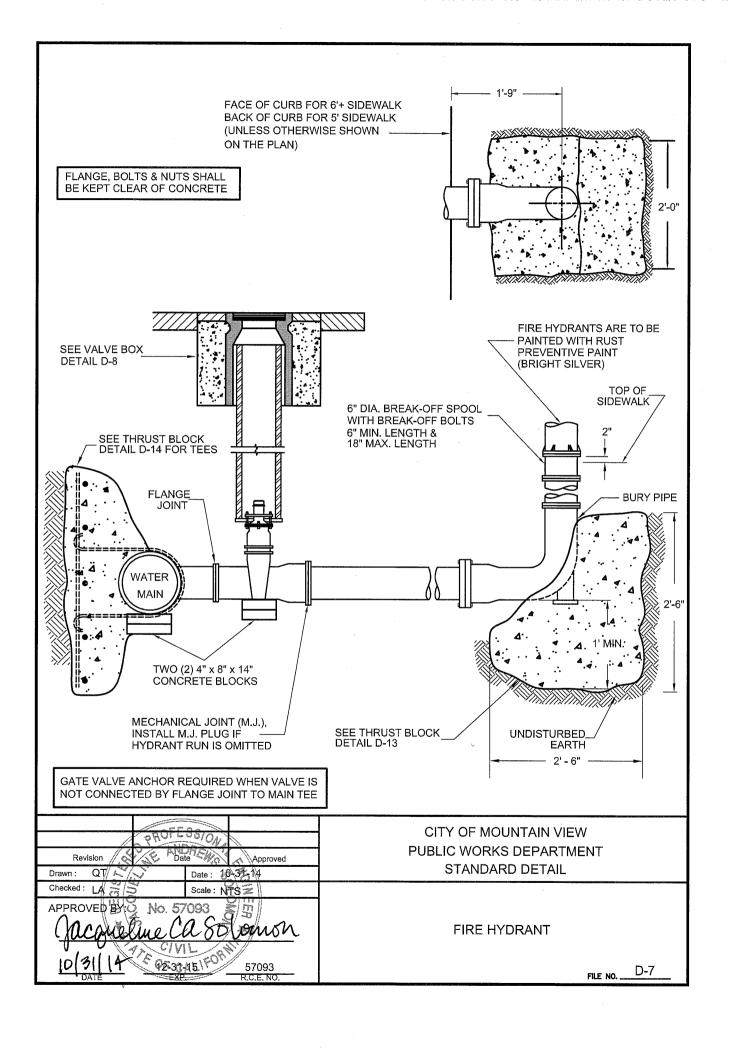
- ① DETECTOR, PIPE SIZE, AND FDC LOCATION TO BE APPROVED BY FIRE DEPARTMENT. DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) SHALL BE PURCHASED AND INSTALLED AS A WHOLE UNIT WITH GATE VALVES, BY-PASS METER, BY-PASS BACKFLOW PREVENTOR, AND BALL VALVES. METER SHALL READ IN CUBIC FEET.
- OUTSIDE SCREW & YOKE (OS & Y) GATE VALVES SHALL BE ELECTRONICALLY MONITORED BY FIRE SPRINKLER MONITORING SYSTEM. CHAIN AND LOCK PER FIRE DEPT. STANDARD.
- (3) FIRE DEPARTMENT CONNECTION (FDC) (2-2 1/2" INLETS WITH CLAPPERS) SHALL FACE STREET FRONTAGE. FINISHED LOCATION 5' MAX BEHIND R/W. 3' MIN CLEARANCE AROUND BACKFLOW AND FDC. ALL WEATHER EXPOSED SURFACES OF THE FDC TO BE PAINTED RED.
- WAFER CHECK VALVE U.L. LISTED, FM APPROVED.
- (5) 1" PVC CONDUIT FOR TAMPER SWITCH ELEC. TO BLDG. ASR.
- (6) EXPOSED PIPING AND FITTINGS SHALL BE FLANGED DUCTILE IRON. INSTALL PIPE SUPPORT AS NEEDED.
- (7) 4" THICK P.C.C. PAD EXTEND PAD MINIMUM 2' BEYOND ASSEMBLY (ALL AROUND).
- (8) STANDARD P.C.C. THRUST BLOCKS 2 CU FT FOR 3" & 4" DIA. PIPE.
- (9) PVC CLASS 150 (MIN.) C 900 OR DIP FOR ON-SITE; PVC CLASS 200 (MIN.) C 900 OR DIP FOR OFF-SITE.
- (10) ALL FERROUS BURIED PIPES TO BE WRAPPED WITH 8-MIL POLYETHYLENE AND SECURE WITH 10-MIL POLY TAPE. ALL NUTS AND BOLTS SHALL BE STAINLESS STEEL AND MASTIC COATED.
- MOUNT APPROVED STREET SIGN ON FDC ASSEMBLY FACING STREET FRONTAGE WITH STAINLESS STEEL STRAPS AND SCREWS.
- (2) 2" ANNULAR SPACE BETWEEN PIPE AND CONCRETE. FILL IN 2" SPACE WITH SAND.

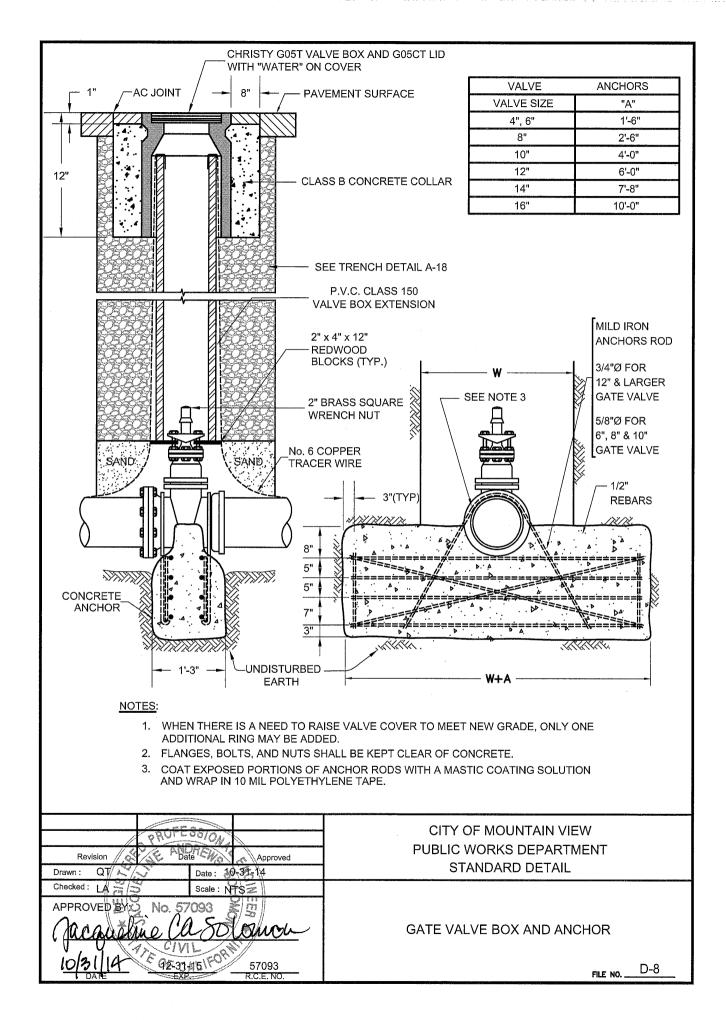
Revision Date: 07-01-14	CITY OF MOUNTAIN VIEW PUBLIC WORKS DEPARTMENT STANDARD DETAIL
Checked: LA Scale: NTSZ APPROVED BY: No. 57093	FIDE DOUBLE QUEOK
1 4 4001010	FIRE DOUBLE CHECK
(pacqueline Cil Solomon	DETECTOR ASSEMBLY
07-03-14	(ABOVE GRADE - COMPACT) FILE NO. <u>D-5C</u>

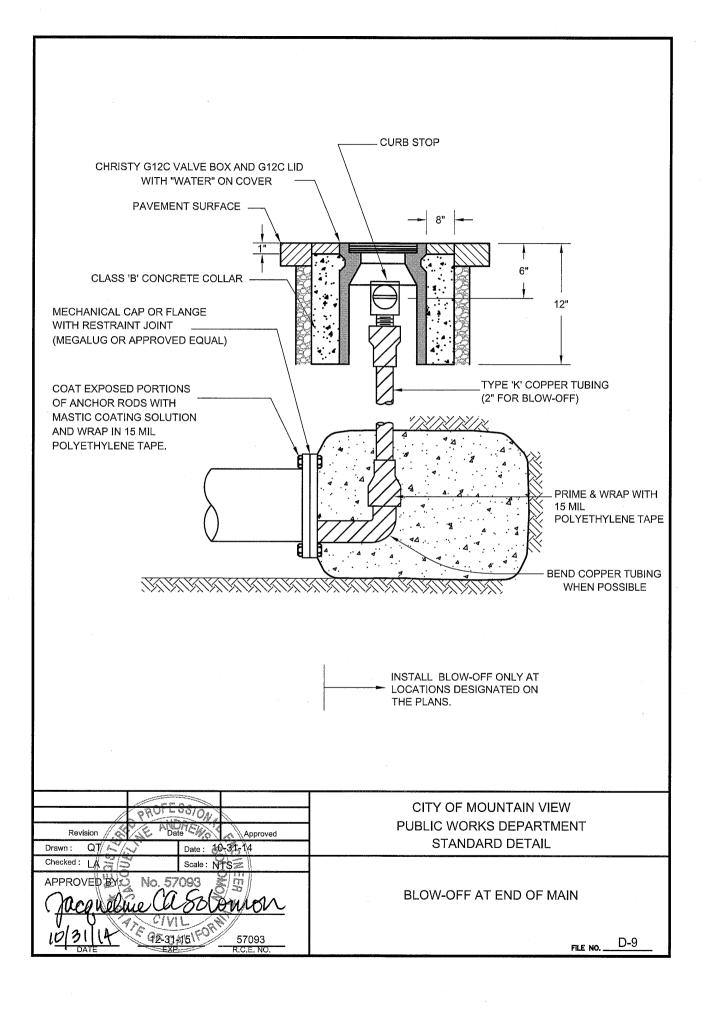


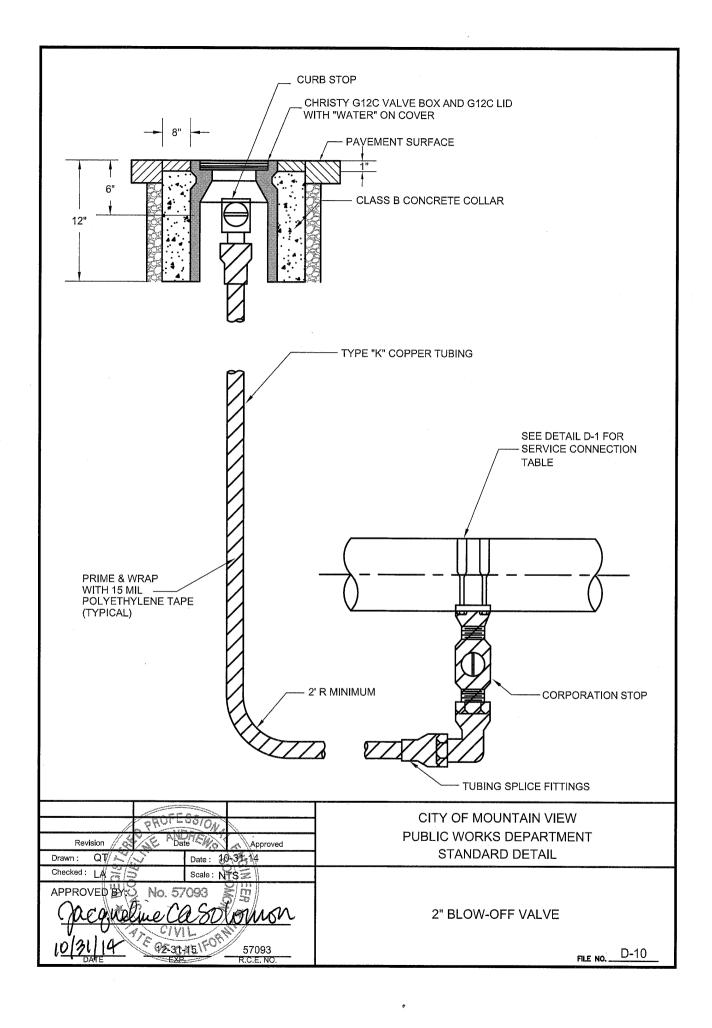
- 1. METER TO BE 5/8" x 3/4" OR 3/4", ALL BRONZE, STRAIGHT READER IN CUBIC FEET.
- 2. ALL WEATHER EXPOSED SURFACES OF THE FDC AND PIV TO BE PAINTED RED. MAINTAIN MIN MIN 3' CLEARANCE AROUND PIV AND FDC.
- 3. ALL PROVISIONS FOR THRUST AND ANCHORAGE TO BE INCLUDED.
- 4. ALL FERROUS BURIED PIPES TO BE WRAPPED WITH 8-MIL POLYETHYLENE AND SECURED WITH 10-MIL POLY TAPE. ALL NUTS AND BOLTS SHALL BE STAINLESS STEEL AND MASTIC COATED.
- 5. SECURE DETECTOR METER AND PIPING TO 3/4" REBAR SUPPORTS, 24" INTO GROUND.
- 6. ABOVE GROUND CHECK VALVE SHALL BE U.L. LISTED, FM APPROVED.
- 7. FIRE PIT SHALL BE INSTALLED ON THE ADDRESS SIDE OF THE BUILDING UNLESS OTHERWISE APPROVED BY FIRE DEPARTMENT AND PUBLIC WORKS DEPARTMENT.

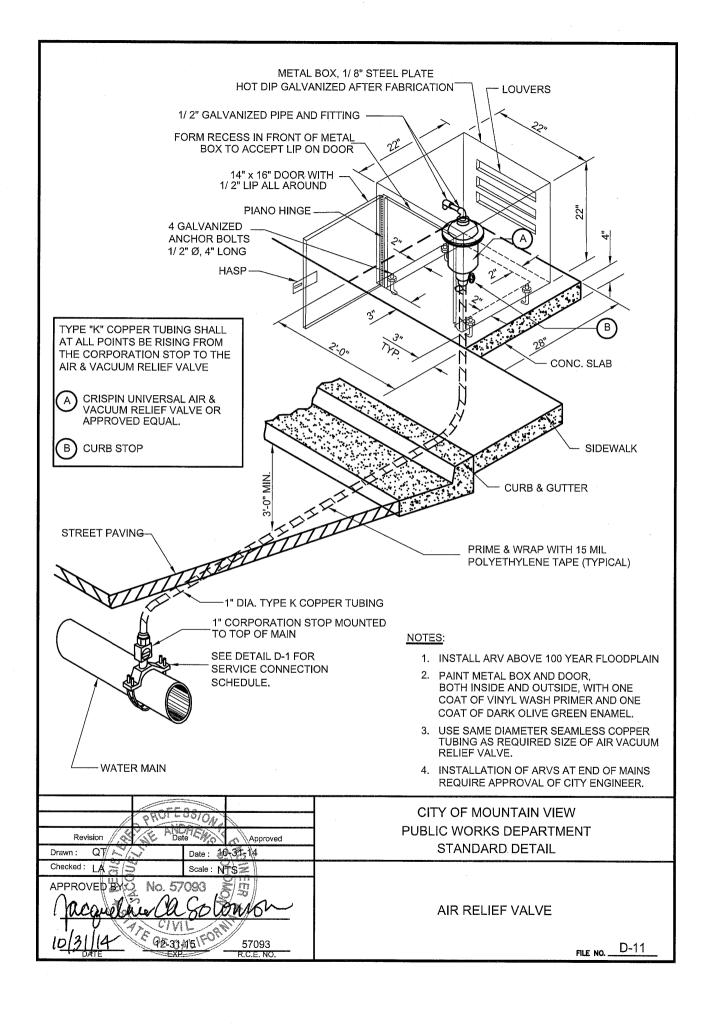
CITY OF MOUNTAIN VIEW PUBLIC WORKS DEPARTMENT Revision Approved STANDARD DETAIL 10-31-14 QT/ Drawn: Checked: Scale: NTS DETECTOR CHECK VALVE APPROVED B 57 7093 (BELOW GRADE) THIS DETAIL IS NOT FOR NEW CONSTRUCTION 92-31-115/50 57093 D-6 FILE NO.

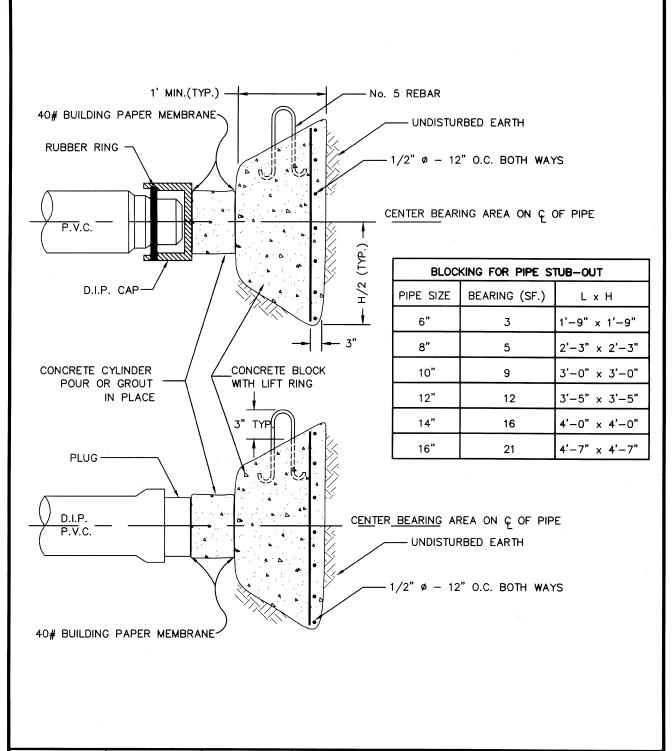










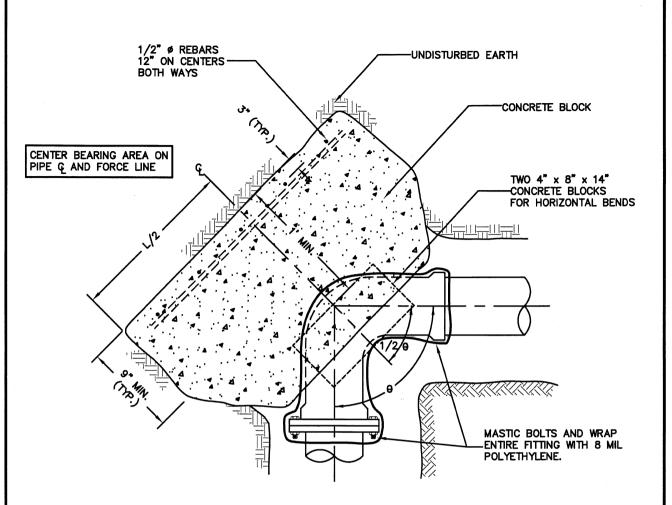


27089

R.C.E. NO.

06-29-99 DATE CITY OF MOUNTAIN VIEW
DEPARTMENT OF PUBLIC WORKS
STANDARD DETAIL

STANDARD
P.V.C. AND D.I.P. STUB-OUT



FLANGES, BOLTS, AND NUTS SHALL BE KEPT CLEAR OF CONCRETE

H = HEIGHTL = WIDTH

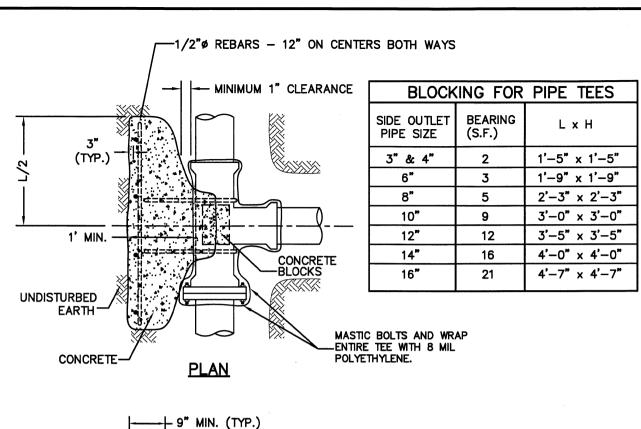
PIPE	IPE REQUIRED AREA — SQ. FT.				FT.	DIMENSIONS - L x H					
SIZE	5 5/8°	11 1/4°	22 1/2°	45°	90°	5 5/8°	11 1/4°	22 1/2°	45°	90°	
6"	1	1	2	3	5	1'-0" x 1'-0"	1'-0" x 1'-0"	1'-5" x 1'-5"	1'-9" x 1'-9"	2'-3" x 2'-3"	
8"	1	1	2	4	8	1'-0" x 1'-0"	1'-0" x 1'-0"	1'-5" x 1'-5"	2'-0" x 2'-0"	2'-10" x 2'-10	
10"	1	2	4	7	12	1'-0" x 1'-0"	1'-5" x 1'-5"	2'-0" x 2'-0"	2'-8" x 2'-8"	3'-5" x 3'-5"	
12"	1	3	5	9	17	1'-0" x 1'-0"	1'-9" x 1'-9"	2'-3" x 2'-3"	3'-0" x 3'-0"	4'-2" x 4'-2"	
14"	2	3	7	13	23	1'-5" x 1'-5"	1'-9" x 1'-9"	2'-8" x 2'-8"	3'-6" x 3'-6"	4'-10" x 4'-10	
16"	2	4	8	16	29	1'-5" x 1'-5"	2'-0" x 2'-0"	2'-10" x 2'-10"	4'-0" x 4'-0"	5'-5" x 5'-5"	

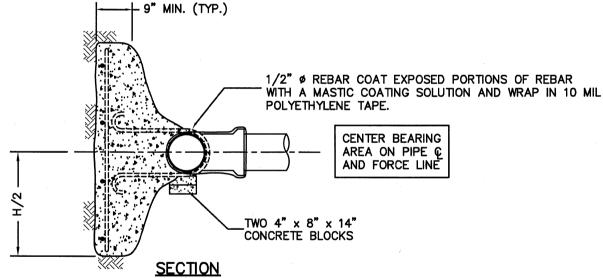
	PHOFEOSTON
Revision //	Date
Drawn: QT/	Date: 02-25-05
Checked: RK &	Scale :NTS
APPROVED BY:	7 EXP. 03-31-07 30
ASS	STANT PUBLIC WORKS DIRECTOR
02-25-05	03-31-07 27089
DATE	EXP. R.C.E. NO.

CITY OF MOUNTAIN VIEW
DEPARTMENT OF PUBLIC WORKS
STANDARD DETAIL

STANDARD THRUST BLOCK FOR

FOR HORIZONTAL AND VERTICAL DOWNWARD BENDS



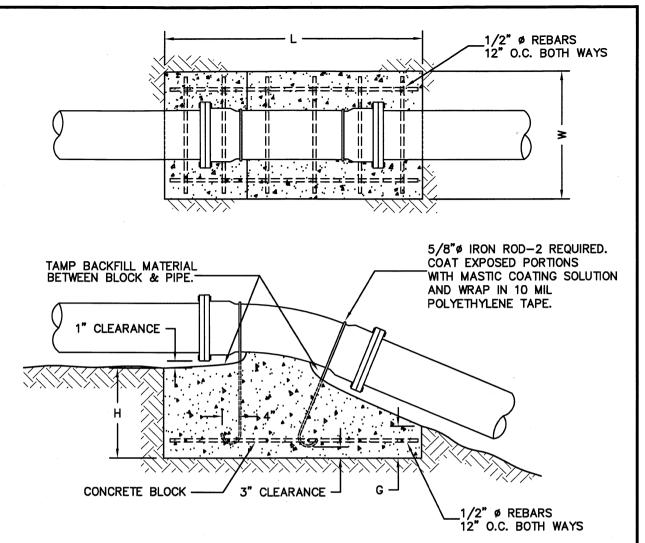


FLANGES, BOLTS, AND NUTS SHALL BE KEPT CLEAR OF CONCRETE.

PROFESSION .	CITY OF MOUNTAIN VIEW			
Proved Drawn: QT Date: 02-25-05	DEPARTMENT OF PUBLIC WORKS STANDARD DETAIL			
Checked: RK				
APPROVED BY: NO. 27089	CTANDADD TUDUCT DI COL			

STANDARD THRUST BLOCK FOR TEES

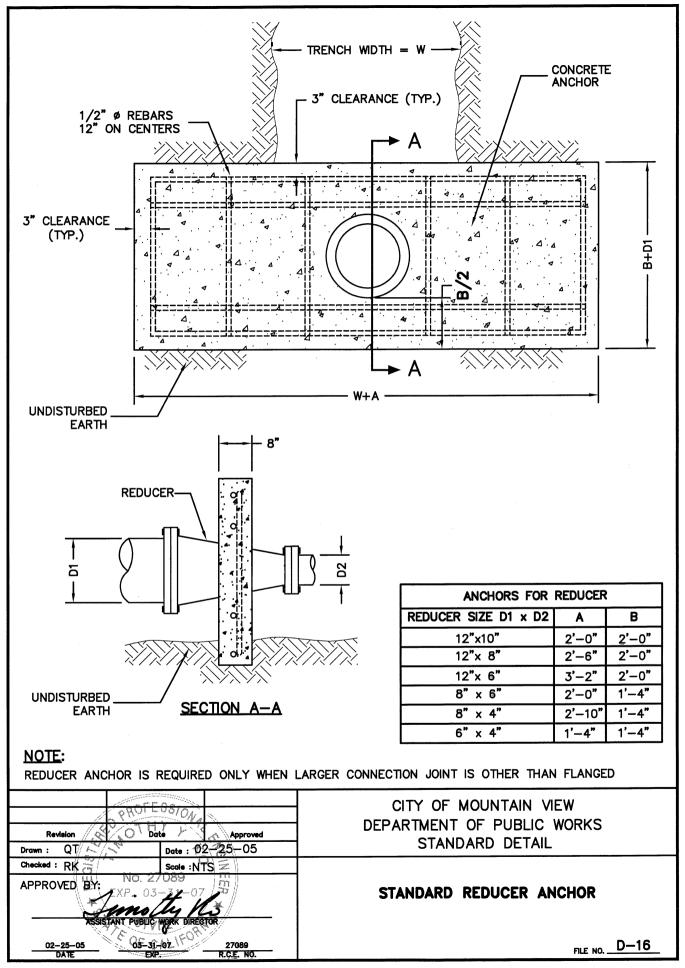
02-25-05 DATE EXP 27089 R.C.E. NO.

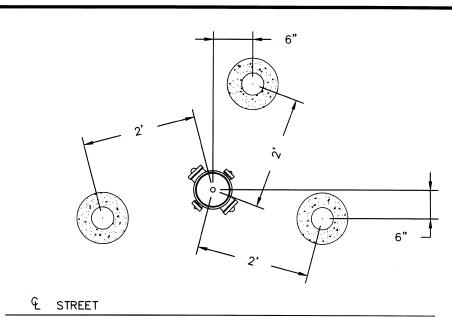


	THRUST BLOCK DIMENSION-UPWARD THRUST											
PIPE	11	11 1/4° BEND 22 1/2° BEND					45°	BEND				
SIZE	L	W	Н	G	L	W	Н	G	L	W	Н	G
6 "	2'0"	2'0"	1'0"	9"	2'0"	2'0"	2'0"	1'0"	3'0"	2'0"	2'0"	6"
8"	2'0"	2'0"	1'0"	9"	3'0"	2'0"	2'0"	1'0"	4'6"	2'0"	3'0"	6"
10"	3'0"	2'0"	2'0"	1'8"	4'0"	2'0"	2'0"	1'0"	6'0"	2'0"	3'8"	6"
12"	3'0"	2'0"	2'0"	1'8"	6'0"	2'0"	2'0"	1'0"	7'0"	2'6"	4'0"	6"

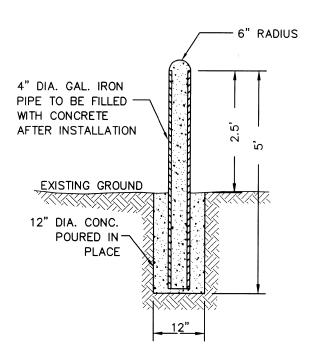
FLANGES, NUTS AND BOLTS SHALL BE KEEP CLEAR OF CONCRETE.

Revision O Date Approved	CITY OF MOUNTAIN VIEW DEPARTMENT OF PUBLIC WORKS				
Drawn : QT Date : 02-25-05	STANDARD DETAIL				
Checked: RK Scale: NTS					
APPROVED BY: EXP. 03-14-07	STANDARD ANCHOR FOR UPWARD THRUST				
ASSISTANT PUBLIC WORKS DIRECTOR	FOR OFWARD INKUST				
02-25-05 DATE 27089 R.C.E. NO.	FILE NO				





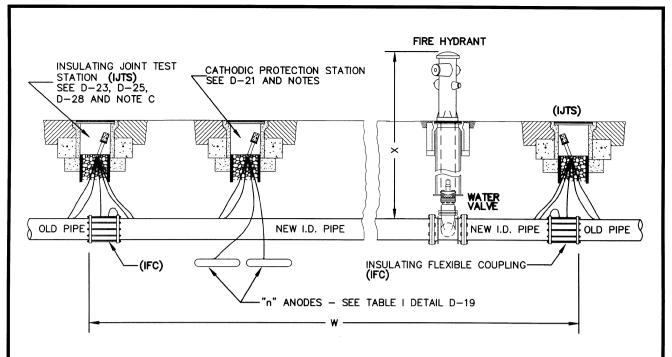
POST LOCATIONS



NOTE:

THE 4" IRON PIPE SHALL BE COATED WITH ZINC CHROMATE PRIMER BEFORE INSTALLATION.

Revision Photos Approved	CITY OF MOUNTAIN VIEW DEPARTMENT OF PUBLIC WORKS			
Drawn: QT Date: 05+23+99	STANDARD DETAIL			
APPROVED BY: NO. 27089 APPROVED BY: NO. 27089 ASSISTANT PUBLIC WORKS DIRECTOR	FIRE HYDRANT GUARD POST			
06-29-99 DATE 8-3GALIFOR 27089 R.C.E. NO.	FILE NOD-17_			



NOTES: TYPICAL CATHODIC PROTECTION SYSTEM

- A. POLYETHYLENE ENCASED D.I. PIPE AND FITTINGS WITH BONDED JOINTS. (SEE D-26 FOR BONDING REQUIREMENTS).
- B. DETERMINE ANODE TEST STATION (ATS) REQUIREMENTS BY THE FOLLOWING STEPS:

$$L = W + N (X + 5)$$

WHERE N = NUMBER OF FIRE HYDRANTS
X & W = DEFINED AS SHOWN ABOVE

STEP 2: DETERMINE SOIL RESISTIVITY OF SOIL AT PROPOSED ATS.

STEP 3: DETERMINE THE NUMBER OF "n" OF ANODES TO BE INSTALLED FROM TABLE I, D-19

C. INSULATING FITTING NOT REQUIRED FOR CONNECTION TO EXISTING NON-METALLIC PIPE. PROVIDE 2-WIRE TEST STATION AT D.I. PIPE ENDS PER D-25 WHERE INSULATING FITTINGS ARE NOT REQUIRED.

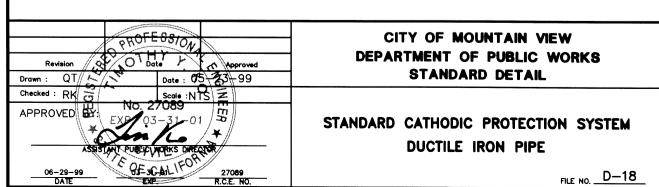


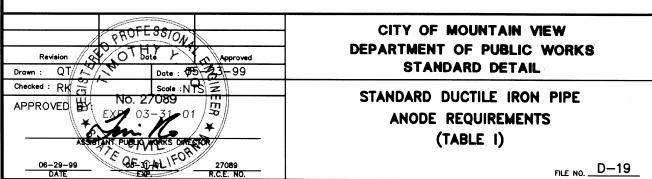
TABLE I:

NEW DUCTILE IRON PIPE LINES ANODE REQUIREMENTS FOR WRAPPED PIPE (WITH KNOWN SOIL RESISTIVITY)

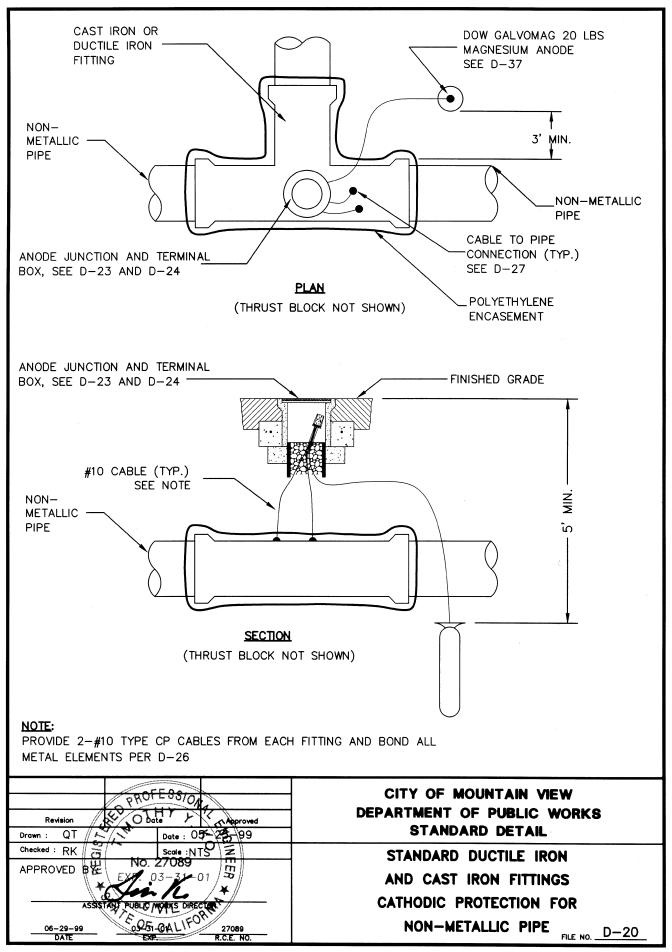
		y				
SIZE OF PIPE	PIPE	NUMBER "n" OF ANODES REQUIRED SOIL RESISTIVITY (Ohm-m)				
D (INCHES)	LENGTH (FEET)	LESS THAN 10	11 TO 30	31 TO 50	51 TO 70	71 TO 120
4	50	1	1	1	1	1
	100	1	1	1	1	2
	150	1	1	2	2	3
4	200	1	1	2	2	3
	250	2	2 (1)	2	3	4
	300	2	2	3	3	5
6	50	1	1	1	1	1
	100	1	1	1	2	2
	150	2 (1)	2 (1)	2	2	3
	200	2 (1)	2	2	3	4
	250	2 (1)	2	3	4	5
	300	3 (1)	2	3	4	6
8	50	1	1	1	1	2
	100	1	1	2	2	3
	150	1	2 (1)	2	3	4
8	200 250 300	2 (1) 3 (1) 3 (1)	3 (2) 3	3 4 4	4 5 6	5 7 8
12	50	1 (1)	1 (1)	1 (1)	2 (2)	3 (3)
	100	2 (1)	2 (2)	2 (2)	4 (3)	5 (5)
	150	3 (1)	3 (2)	4 (3)	5 (4)	8 (8)
12	200	3 (1)	3 (3)	5 (4)	7 (6)	10 (9)
	250	4 (2)	4 (3)	5 (5)	8 (7)	13 (12)
	300	5 (2)	5 (4)	7 (6)	10 (8)	16 (14)

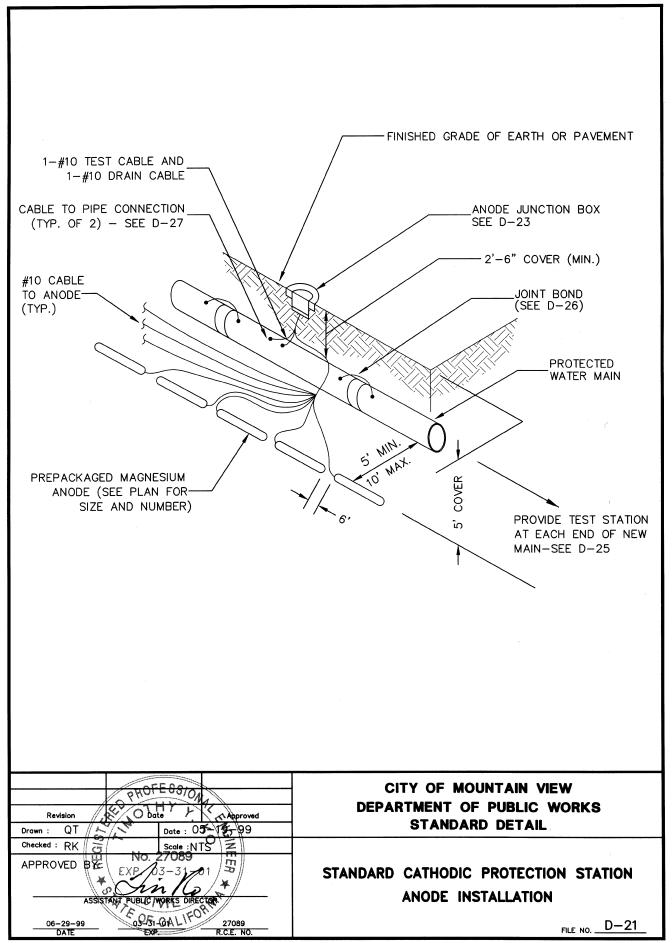
NOTES:

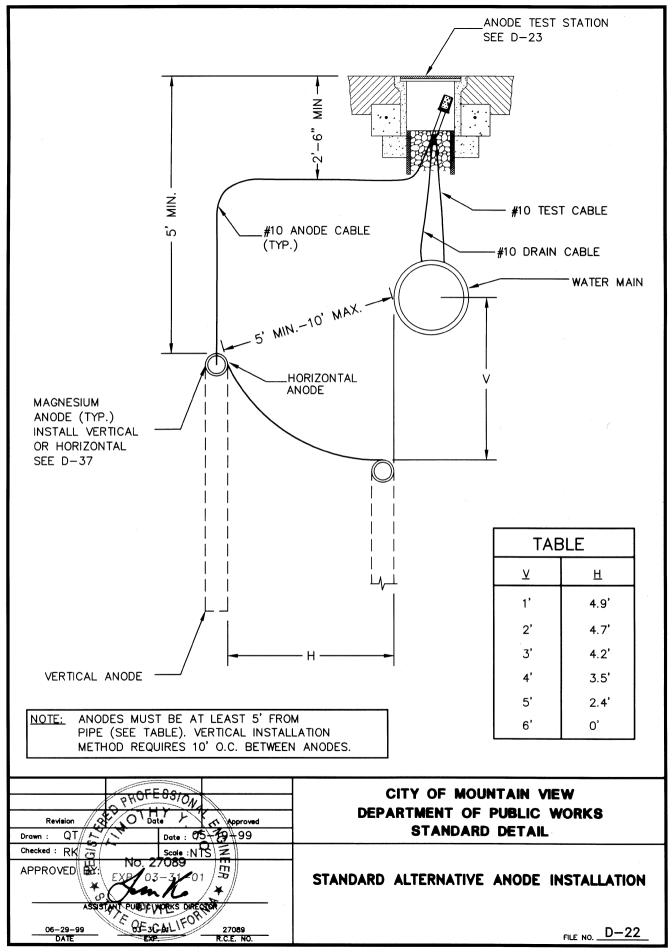
- 1. USE 20-POUND MAGNESIUM ANODES PER STANDARD DETAILS (SEE D-37). THE VALUES IN BRACKETS INDICATES THE NUMBER OF 60-POUND ANODES WHICH ARE REQUIRED IN LIEU OF 20-POUND ANODES.
- 2. IF SOIL RESISTIVITY IS NOT DETERMINED FOR THE LOCATION, USE MAGNESIUM ANODES FOR 71 TO 120 OHM-M SOIL RESISTIVITY.
- 3. TABULAR VALUES ARE BASED ON POLYETHYLENE ENCASED PIPE AND FITTINGS. BONDED FOR CONTINUITY AND OTHER ELECTRICALLY INSULATED METAL PIPES.

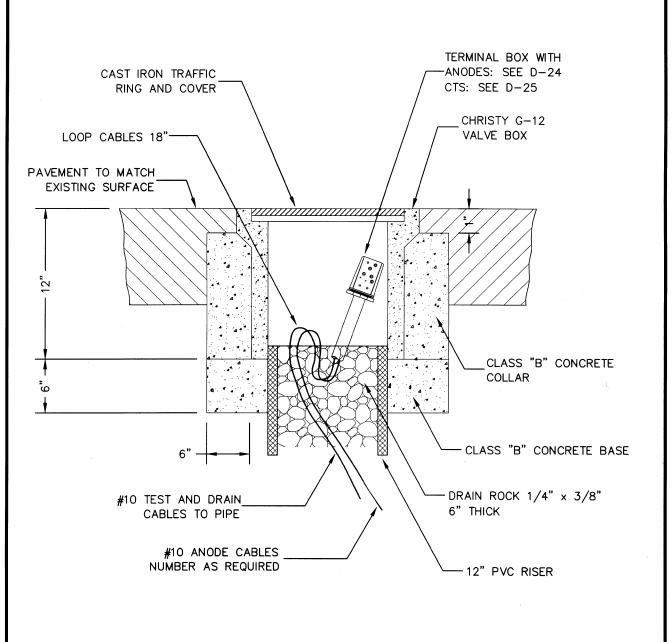


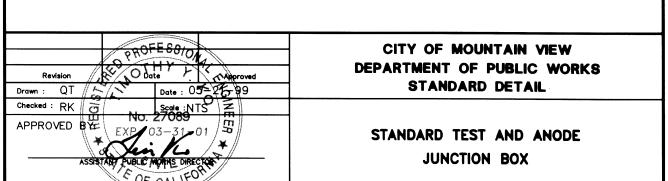
R.C.E. NO.

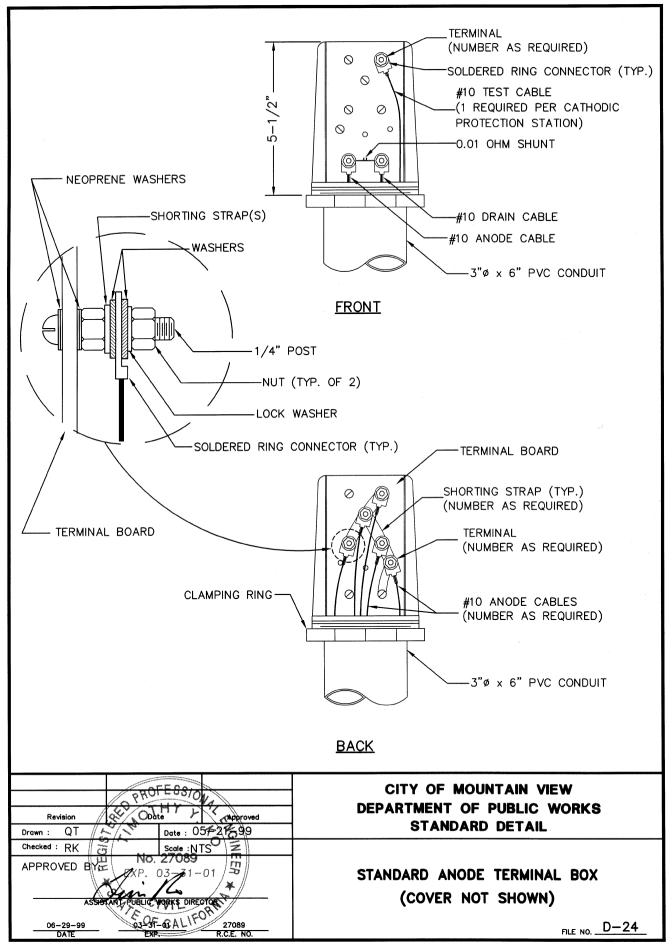


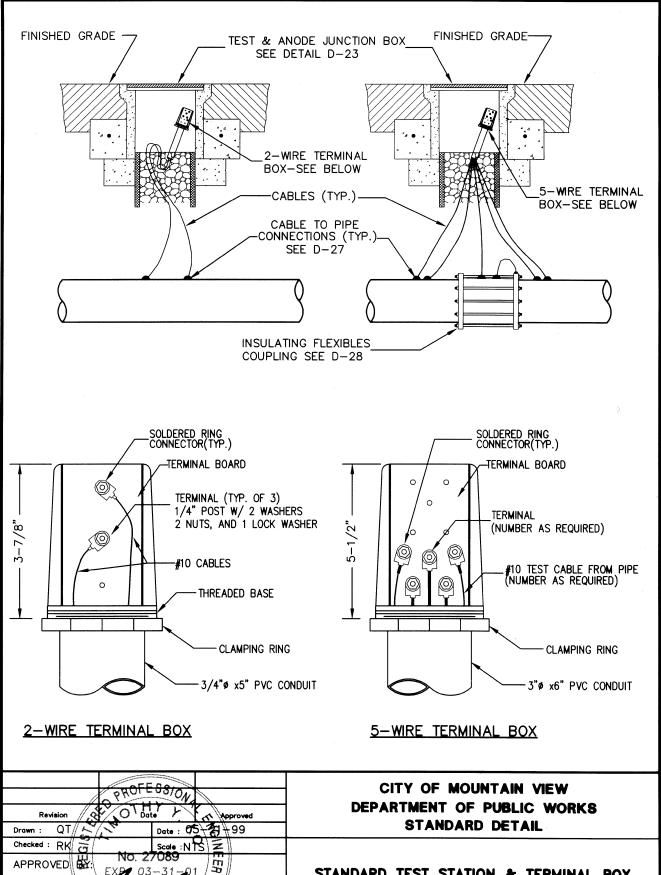












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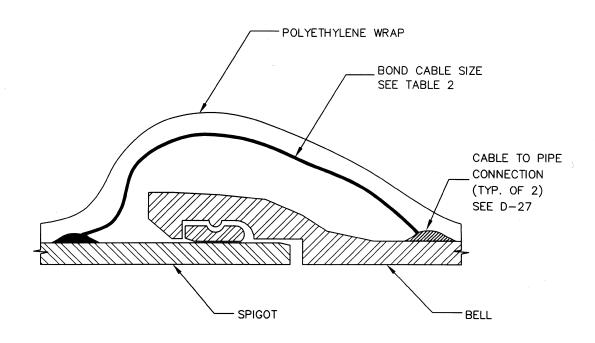
R.C.E. NO.

06-29-99

DATE

STANDARD TEST STATION & TERMINAL BOX
(BOX COVERS NOT SHOWN)

FILE NO. D-25



BOND DETAIL IS USED FOR MECHANICAL AND PUSH-ON JOINTS

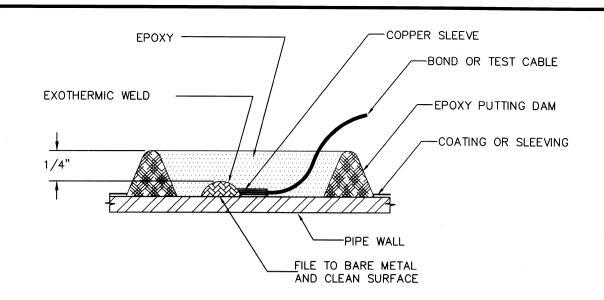
TABLE 2

PIPE SIZE (INCHES)	BOND SIZE (AWG No.)
4 TO 10	#6
12 TO 16	#4
20 TO 24	#2
30 TO 42	#1

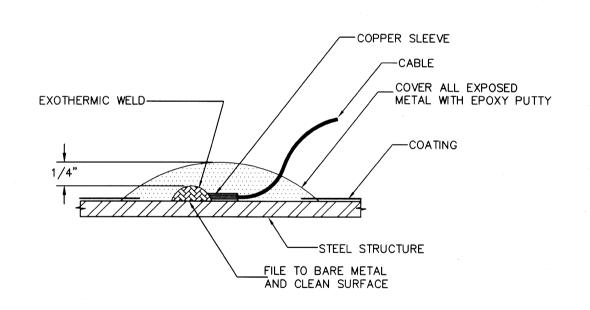
	ATE OA			
	6 BOLL BOOM			
Revision	S O Part	Approved		
Drawn: QT // A	Date : 05	7-1 8 -99		
Checked : RK	Scale : N7	SIZ		
APPROVED BY	No. 2/089) 1 /S		
P. 03-31-01/30				
	Cam /Lo			
ASSISTANT PUBLIC MONKS DIRECTOR				
06-29-99	09251-0AL	27089		
DATE	EXP	R.C.E. NO.		

CITY OF MOUNTAIN VIEW DEPARTMENT OF PUBLIC WORKS STANDARD DETAIL

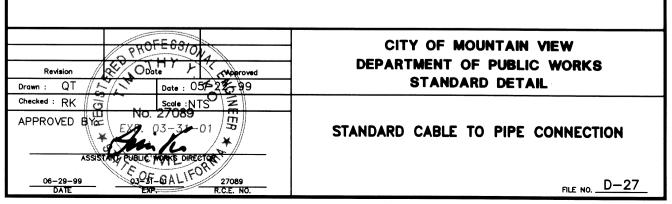
> STANDARD JOINT BOND FOR DUCTILE IRON PIPE

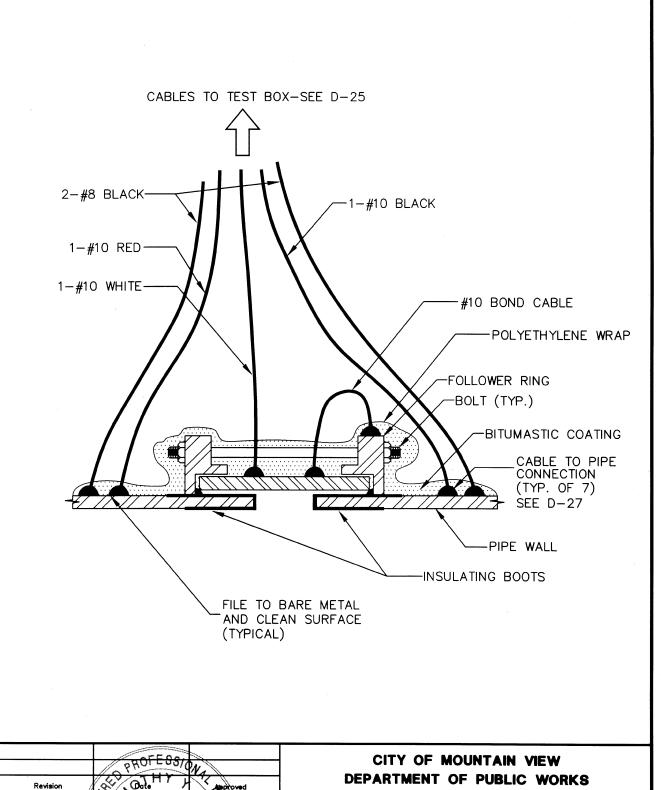


BELOW GROUND



ABOVE GROUND AND VERTICAL WELDS





Drawn: QT Date: 05-78899 STANDARD DETAIL

Checked: RK Scale: NTS Z

APPROVED BY: CD NO. 27089

P. 03-31-01

INSULATING FLEXIBLE COUPLING SECTION

O6-29-99
DATE EXP. R.C.E. NO. D-28

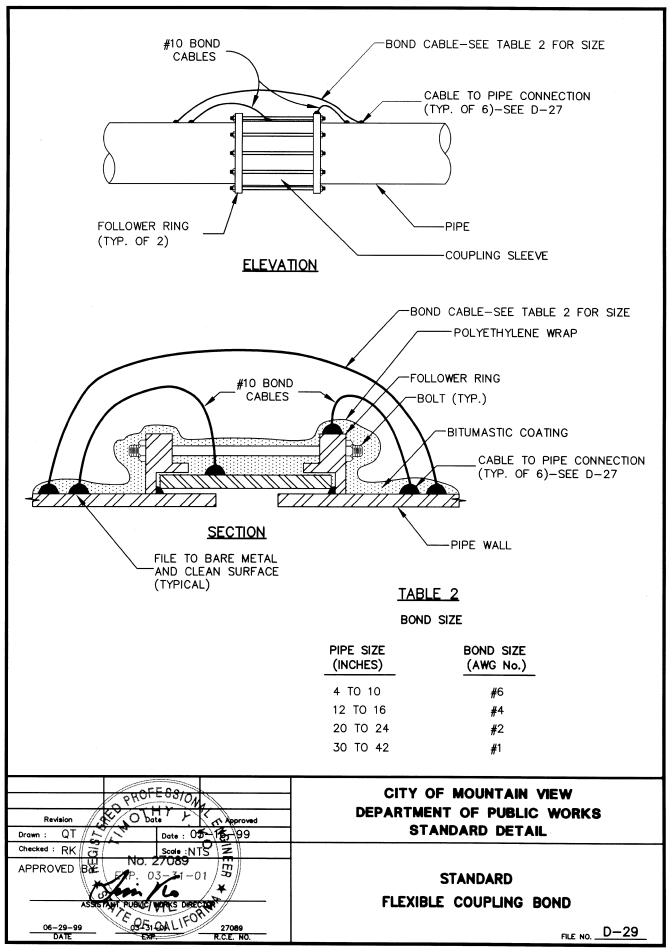


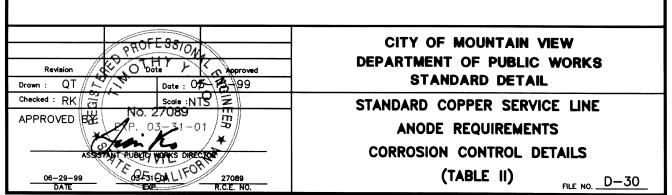
TABLE II:

NEW COPPER SERVICE LINES ANODE REQUIREMENTS FOR WRAPPED PIPE (WITH KNOWN SOIL RESISTIVITY)

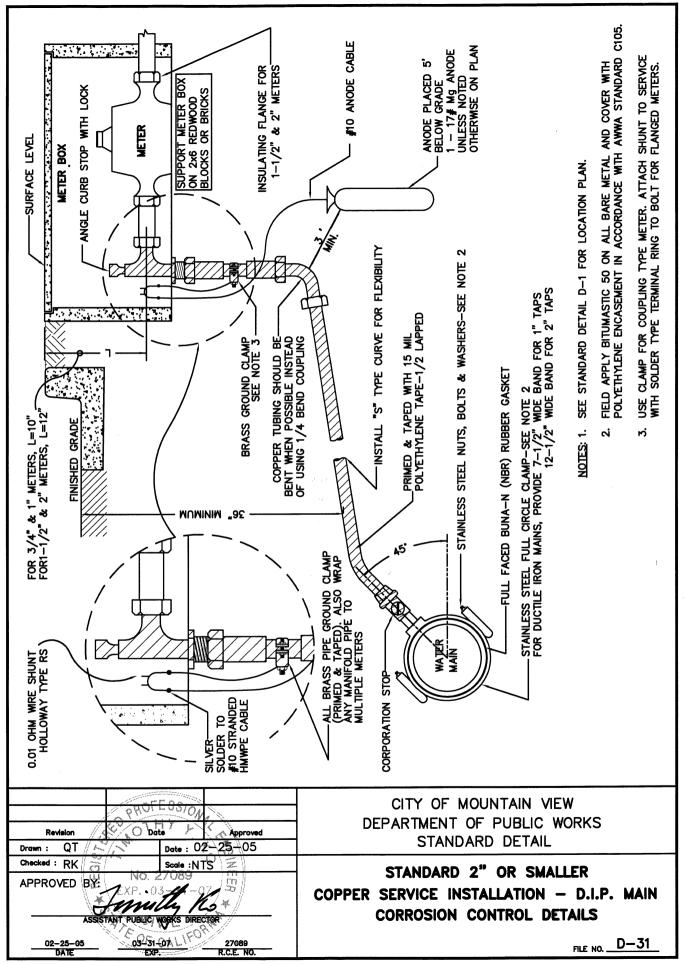
SIZE OF SERVICE	SOIL RESISTIVITY (Ohm-m)				
(INCHES)	LESS THAN 10	11 TO 30	31 TO 50	51 TO 70	71 TO 120
1/2 & 5/8	1 # 12	1 # 12	1 # 12	1 # 17	1 # 17
1, 3/4 & 1-1/4	1 # 12	1 # 12	1 # 17	1 # 17	1 # 17
1-1/2 & 2	1 # 12	1 # 17	1 # 17	1 # 17	1 # 17
2-1/2 & 3	1 # 17	1 # 17	1 # 17	1 # 17	2 # 17

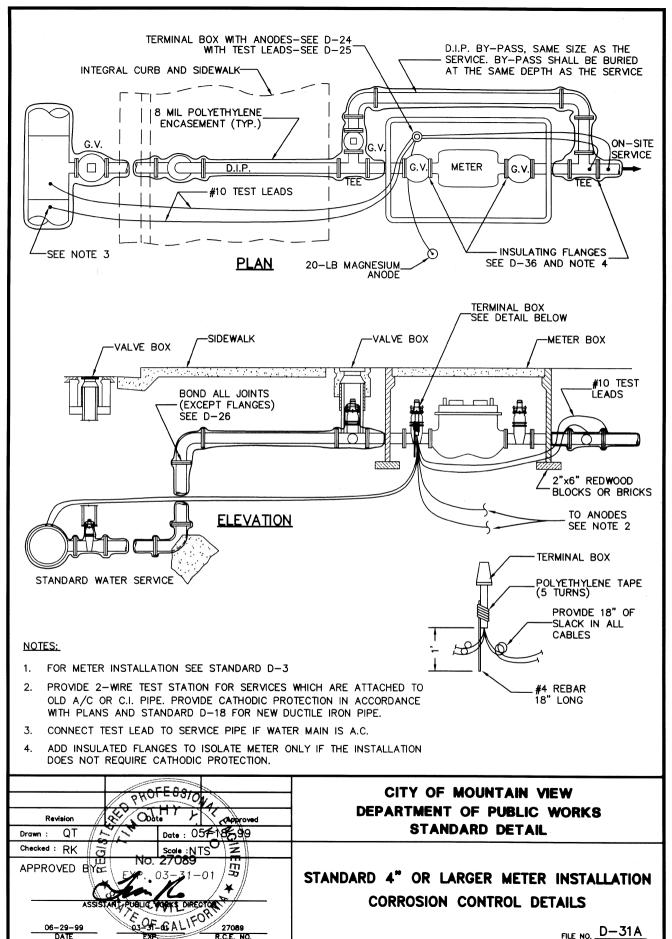
NOTES:

- 1. USE MAGNESIUM ANODES PER STANDARD DETAILS FOR VALUES BELOW DOUBLE LINE, AND ZINC ANODES PER STANDARD DETAILS FOR VALUES ABOVE DOUBLE LINES.
- 2. IF SOIL RESISTIVITY IS NOT DETERMINED FOR THE LOCATION, USE (1) 17# MAGNESIUM ANODE FOR SERVICES 1-1/2" AND SMALLER, AND (2) 17# MAGNESIUM ANODES FOR SERVICES LARGER THAN 2" AND UP TO 50 FEÈT LONG.
- 3. TABULAR VALUES ARE BASED ON 50 FEET OF SERVICE LINE OR LESS. FOR SERVICE LINES FROM 50 FEET TO 100 FEET LONG, USE 2 TIMES THE TABULAR VALUE.



R.C.E. NO.

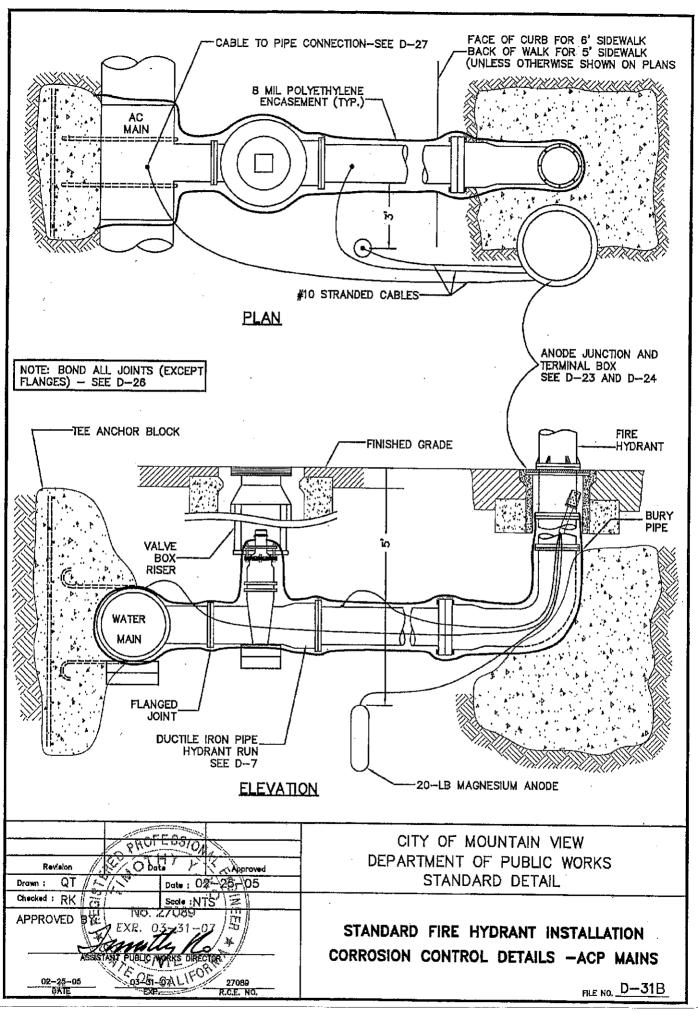


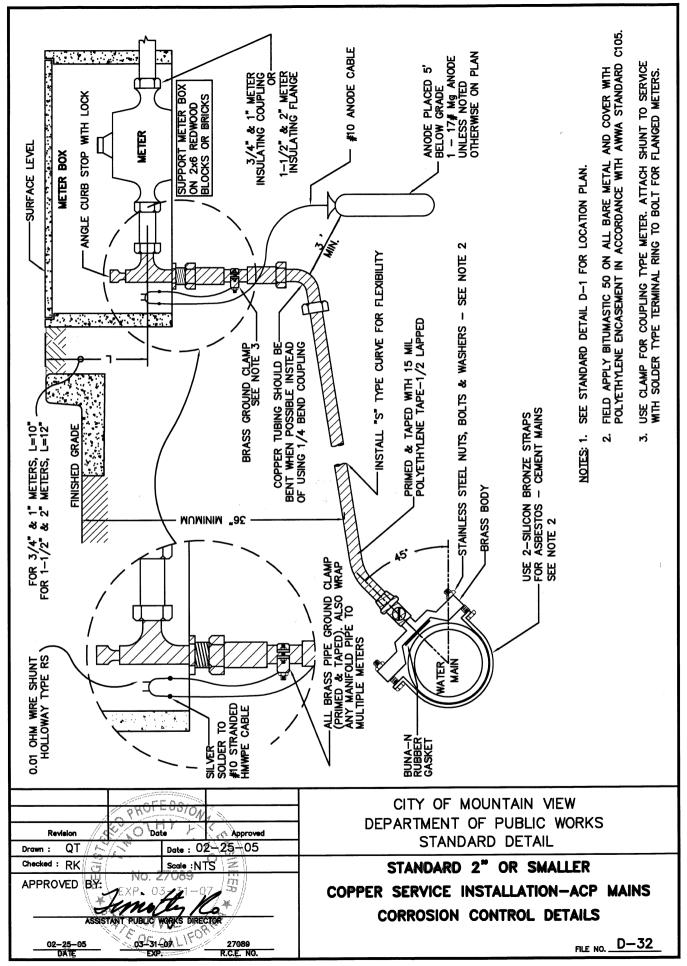


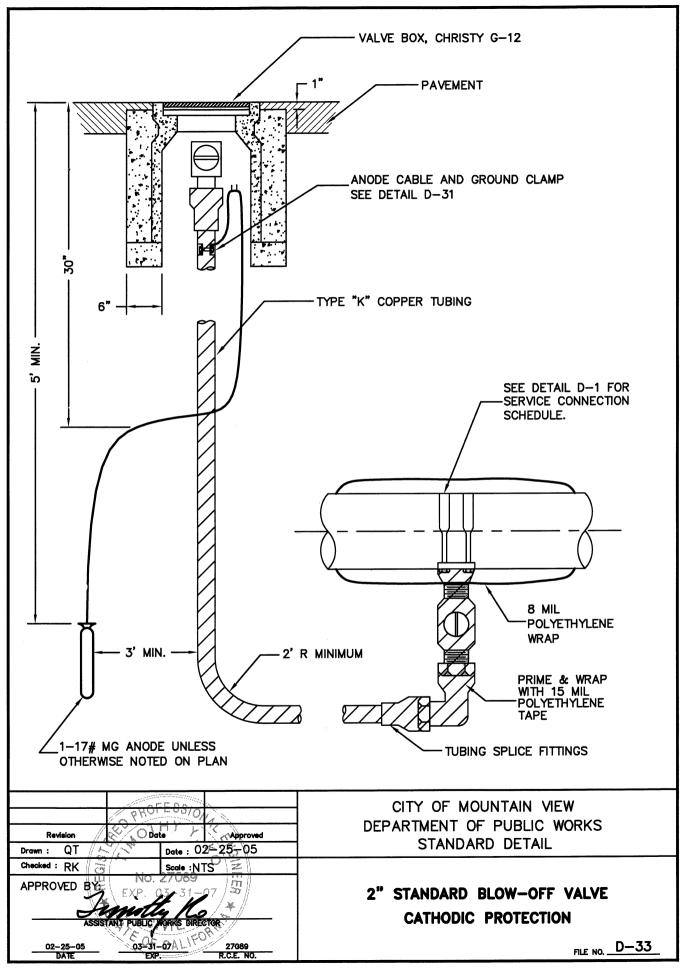
DATE

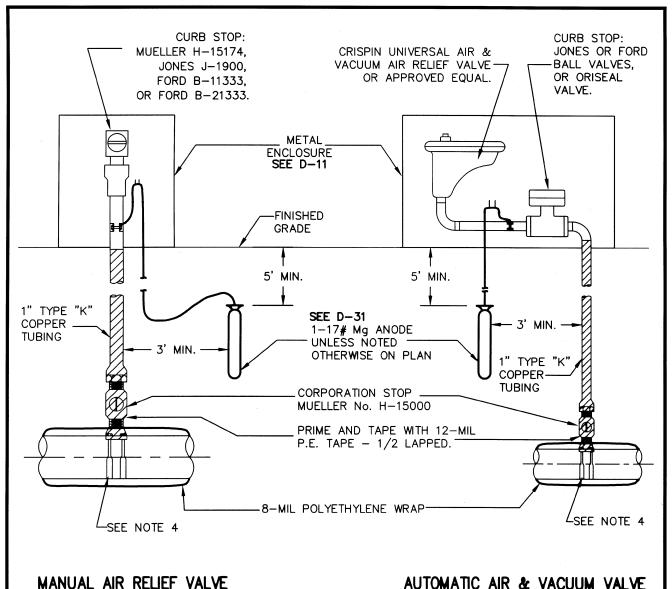
R.C.E. NO.

FILE NO. D-31A









06-29-99

- CONNECTION TO WATER MAIN SHALL CONFORM TO STANDARD DETAILS AND SPECIFICATIONS.
 USE SAME DIAMETER SEAMLESS COPPER TUBING AS REQUIRED SIZE OF AIR & VACUUM RELIEF VALVE.
 - 3. AIR RELIEF VALVE AND CURB STOP SHALL BE PLACED IN BOX SUCH THAT THE WALL OF THE BOX WILL NOT INTERFERE WITH THE INSTALLATION AND REMOVAL OF THE VALVES.
- 4. FOR A/C: DOUBLE STRAP SERVICE CLAMP.

 FOR PVC: SERVICE SADDLE APPROVED BY ENGINE

S-SE-OCALIFOR

FOR PVC : SERVICE SADDLE APPROVED BY ENGINEER. FOR DIP, CIP : SEE DETAILS IN D-31

CITY OF MOUNTAIN VIEW

Department of Public Works

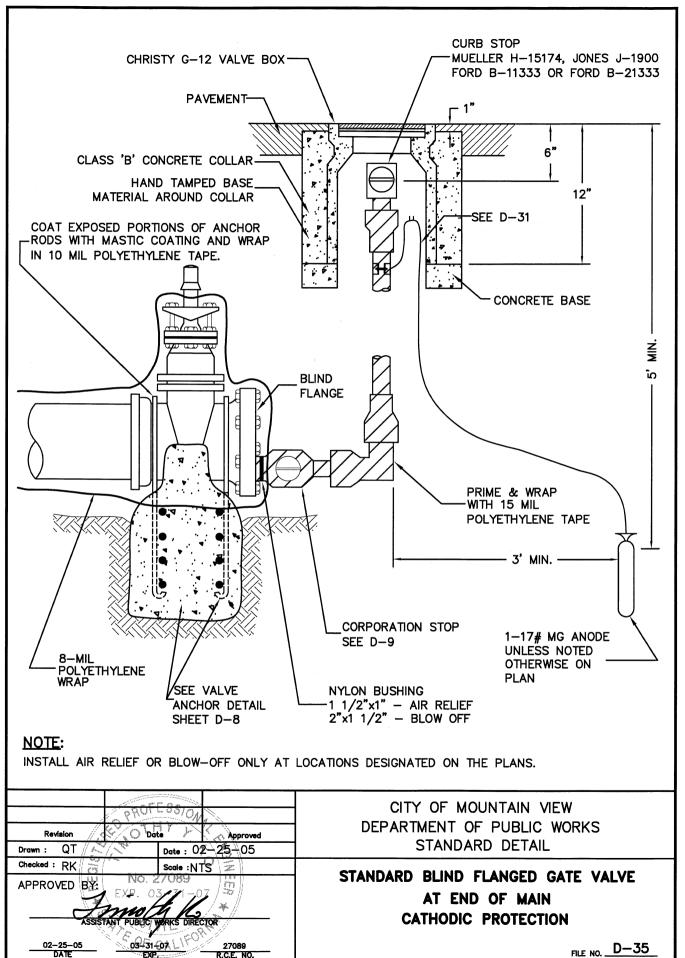
Standard Detail

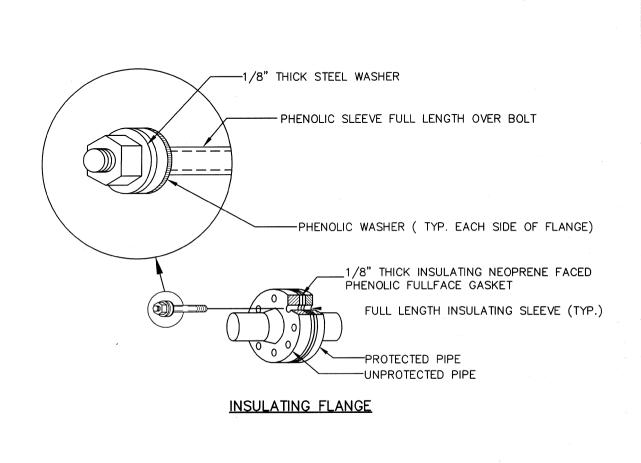
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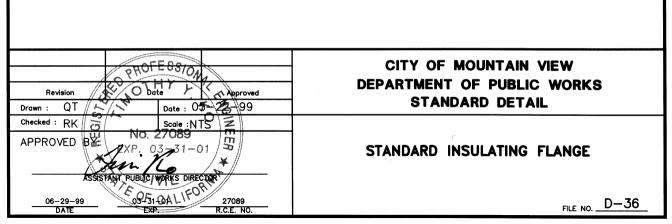
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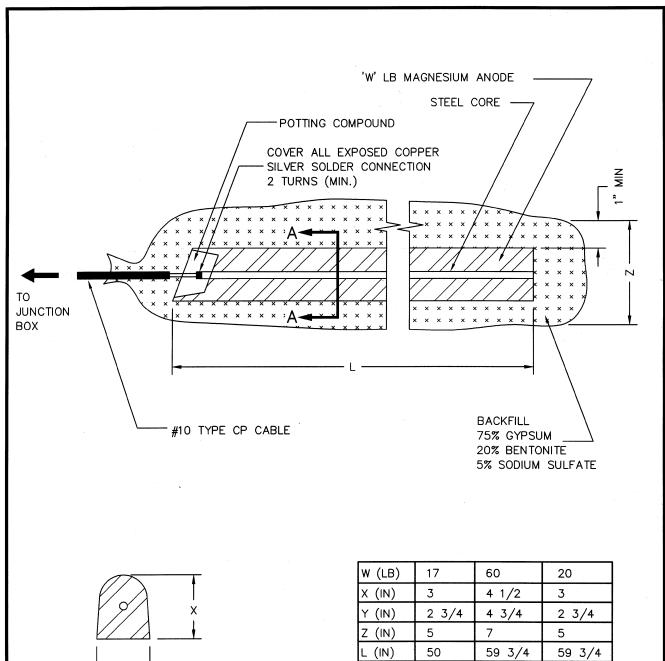
STANDARD AIR RELIEF VALVE

STANDARD AIR RELIEF VALVE CATHODIC PROTECTION









SECTION A-A

Y (IN)	2 3/4	4 3/4	2 3/4
Z (IN)	5	7	5
L (IN)	50	59 3/4	59 3/4

/26	RULLOSION				
Revision	Date Approved				
Drawn: QT	Date: 05-23-99				
Checked: RK	Scale :NTS Z				
APPROVED BY: No. 27089 EX9. Q3-31 01					
ASSISTANT RUBLIC WORKS DIRECTOR					
06-29-99 DATE	27089 R.C.E. NO.				

CITY OF MOUNTAIN VIEW
DEPARTMENT OF PUBLIC WORKS
STANDARD DETAIL

STANDARD MAGNESIUM ANODE

